Project Design Phase-I

Proposed Solution

Date	10 October 2022
Team ID	PNT2022TMID33064
Project Name	Emerging Methods for Early Detection of Forest Fires

Proposed Solution Details:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Detecting the forest fire at the most earliest possible time to reduce its impact in our environment in all possible ways
2.	Idea / Solution description	We implement preprocessing steps to eliminate the noises in images. And also implements feature extraction to extract the color features and segment of the fire regions.
3.	Novelty / Uniqueness	We classify the pixels using CNN algorithm with an efficient mobile alert system that sends messages to corresponding authorities.
4.	Social Impact / Customer Satisfaction	Saves the environment and its related resources from great loss. Prevent damaging of flora,fauna and some of the important endangered species. Large amounts of CO2 emissions are avoided.
5.	Business Model (Revenue Model)	Forest ranger's lives will be saved . Prevents global warming. Prevents damaging of the electrical wires and optical fibers which may cost the government. Reports to the forest department and nearest police station quickly so as to take faster actions
6.	Scalability of the Solution	Automated analysis of fire detection. Improved accuracy rate. Reduced time for computational complexity.